

## SPECIFICATIONS

DUPLEX BOARD OPERATIONAL FEATURES

- Man/Off/Auto Switches – The pumps are controlled by the logic circuitry.
- Lead Selector Switch – Either pump can be selected.
- LED Status Indicators – LED indicators for pump running, pump failure, seal failure and high water.
- Lamp Test Options – The DC101A has a lamp test that will turn on all indicators.
- High Water Enable – Turn on either one or both pumps during a high water condition.
- Lead Bypass – Both pumps will be turned on when the lag start level is reached.
- Power On Delays – These adjustable delays increase or decrease the time between circuit board power on and each pump's being turned on for the first time.
- Pump Fail Delays – The pump failure delays set the delay time before a pump failure alarm occurs.
- Pump Off Delays – To prevent short cycling of the pumps.
- Terminal Board (DCTB) – The DCTB board provides panel and field terminals.
- Float Test (FT101A) Option Board – The FT101A board provides input level monitoring/testing.
- Alarm Telemetry/Aux. Contact (DCAT rev. B) Option Board – The duplex controller alarm telemetry (DCAT) board provides auxiliary, normally open, relay contact outputs for the following duplex board alarms: auxiliary alarm, improper sequence, and high water.

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## SPECIFICATIONS

### QUADRAPLEX BOARD OPERATIONAL FEATURES

- Man/Off/Auto Switches – Pumps are controlled by the QC-101 circuitry.
- Improper Sequence Indicator and Reset Button – An improper sequence alarm is generated when one of the call-for floats or the lead pump stop float fails to operate properly.
- Float Status LEDs – The QC-101 has 9 LED float status indicators.
- Pump Status LEDs – Individual pump-running, pump failure and seal failure LEDs.
- Input Status LEDs – 14 input status LEDs.
- Maximum Run Timer – Maximum run timer will automatically alternate between pumps
- 1<sup>st</sup> On/1<sup>st</sup> Off Enable – The pump that has been running the longest will be turned off first.
- High Water Enable – This setting will allow all of the pumps to be called for during a high water condition.
- Pump Fail Delay – These adjustments set the delay time before a pump failure alarm occurs.
- Power On Delays – These adjustable delays increase or decrease the time between circuit board power-on and each pump's being turned on for the first time.
- Frequency Test Point – It is used to calibrate the maximum run timer clock circuitry.
- Taking Pumps Out of Sequence – Pumps can be taken out of the normal alternation sequence in case of trouble.
- Terminal Board (QCTB) – The QCTB board provides panel and field terminations for the Quadraplex board (QC101A).
- Alarm Telemetry/Aux. Contact (QCAT Rev. A) Option Board – The quadraplex controller alarm telemetry board provides auxiliary, normally open, relay contact outputs for the following alarms: auxiliary alarm, P1 – P4 seal failure, P1 – P4 failure, improper sequence and high water.